BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of Work: Detailed estimated for Improvements to Main & Cross roads in Shastri Layout at Abbigere, in ward no.12, in Shettyhalli Sub-Division

Est. Cost Rs 47.00 Lakhs

Sl. No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. KSRB 2-1.2: – do – Hard soil (P.152, I. No..19.2 PW, P & IWTD -SR 2013-14)								
	Kempegowda Garden 5th Cross	Cum	1	63.00	5.00	0.30	94.50		
	4th Cross		1	75.00	5.00	0.30	112.50		
	3rd Cross		1	62.00	5.00	0.30	93.00		
	4th cross Sonappa layout		1	217.00	4.00	0.30	260.40		
	Babanna layout		1	207.00	5.10	0.30	316.71		
	Damaged Portion		1	26.00	3.50	0.30	27.30		
			1	45.00	3.50	0.30	47.25		
			1	40.00	3.50	0.30	42.00		
	Sanitary cuttings		1	508.00	0.65	0.80	264.16		
							1257.82	90.72	**114109.00**
	Basic Rate	84.00							
	Add Area Weightage 8%	6.72							
	Total	**90.72**							
2	KSRB-2.6: Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. Specification No. KBS 2.10.2. Page No. 6/ Item No. 2.13/ PWD SR 2013-14								
		Cum	1	508.00	0.65	0.40	**132.08**		
							132.08	1760.40	**232514.00**
	Basic Rate	1630.00							
	Add Area Weightage 8%	130.40							
	Total	**1760.40**							
3	KSRRB M400-5.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. Close graded granular sub-base material as per 400-1 For Grading- I Material(P.167/I.20.41 PW, P & IWTD -SR 2013-14)								
	Kempegowda Garden 5th Cross	Cum	1	63.00	5.00	0.15	47.25		
	4th Cross		1	75.00	5.00	0.15	56.25		
	3rd Cross		1	62.00	5.00	0.15	46.50		
	4th cross Sonappa layout		1	217.00	4.00	0.15	130.20		
	Babanna layout		1	207.00	5.10	0.15	158.36		
	Damaged Portion		1	26.00	3.50	0.15	13.65		
			1	45.00	3.50	0.15	23.63		
			1	40.00	3.50	0.15	21.00		
	Sanitary cuttings		1	508.00	0.65	0.15	49.53		

							546.36	1060.56	579448.00
	Basic Rate	982.00							
	Add Area Weightage 8%	78.56							
	Total	**1060.56**							
4	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.167/I.20.18 PW, P & IWTD - SR 2013-14)								
		Cum	1	63.00	5.00	0.20	63.00		
			1	75.00	5.00	0.20	75.00		
			1	62.00	5.00	0.20	62.00		
			1	217.00	4.00	0.20	173.60		
			1	207.00	5.10	0.20	211.14		
			1	26.00	3.50	0.20	18.20		
			1	45.00	3.50	0.20	31.50		
			1	40.00	3.50	0.20	28.00		
			1	508.00	0.65	0.20	66.04		
							728.48	1121.04	**816655.00**
	Basic Rate	1038.00							
	Add Area Weightage 8%	83.04							
	Total	**1121.04**							
5	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 Page No. 175/ Item No. 21.6/ PWD SR 2013-14								
		Sqm	1	63.00	5.00		315.00		
			1	75.00	5.00		375.00		
			1	62.00	5.00		310.00		
			1	217.00	4.00		868.00		
			1	207.00	5.10		1055.70		
			1	26.00	3.50		91.00		
			1	45.00	3.50		157.50		
			1	40.00	3.50		140.00		
			1	508.00	0.65		330.20		
							3642.40	44.28	**161285.00**
	Basic Rate	41.00							
	Add Area Weightage 8%	3.28							
	Total	**44.28**							
6	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5. (Page No. 175, Item No. 21.1, PWD SR 2013-14								
		Sqm	1	245.00	4.00		980.00		
			1	87.00	5.10		443.70		
							1423.70	2.59	**3690.00**
	Basic Rate	2.40							
	Add Area Weightage 8%	0.19							
	Total	**2.59**							

7	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 176/ Item No. 21.7/ PWD SR 2013-14								
		Sqm	1	245.00	4.00		980.00		
			1	87.00	5.10		443.70		
							1423.70	17.93	**25524.00**
	Basic Rate	16.60							
	Add Area Weightage 8%	1.33							
	Total	**17.93**							
8	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH /Chapter 5. With 60/70 grade bitumen. Page No. 176/ Item No. 21.11.2/ PWD SR 2013-14								
			1	26.00	3.50	0.05	4.55		
			1	45.00	3.50	0.05	7.88		
			1	40.00	3.50	0.05	7.00		
			1	265.00	0.65	0.05	8.61		
							28.04	6733.80	**188799.00**
	Basic Rate	6235.00							
	Add Area Weightage 8%	498.80							
	Total	**6733.80**							
9	KSRRB M500-19. Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 50930-45mm compacted thickness (Grading II) with 6% Bitumen 60/70 (P.179/ I.21.22.2) PW, P & IWTD - SR 2013-14)								
		Cum	1	63.00	5.00	0.04	12.60		
			1	75.00	5.00	0.04	15.00		
			1	62.00	5.00	0.04	12.40		
			1	217.00	4.00	0.04	34.72		
			1	207.00	5.10	0.04	42.23		
			1	87.00	3.50	0.04	12.18		
			1	245.00	3.50	0.04	34.30		
							163.43	11284.92	**1844272.00**
	Basic Rate	10449.00							
	Add Area Weightage 8%	835.92							
	Total	**11284.92**							
10	Carriage of mixed materials 10kms . For items of Sl. No (1) rs. 5.20 per cum/km. Page No. 186/PWD SR 2013-14								
	Item (8) + item (9)						**191.47**	56.16	**10753.00**
	Basic Rate	52.00							
	Add Area Weightage 8%	4.16							

(2)

		56.16							
10	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and lying of hot applied Thermoplastic Compound 2.5mm thick including Reflectrising Glass Beads at 250 gms per Sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803. Page No. 197/ Item No. 24.15/ PWD SR 2013-14								
	Lane Line	Sqm	2	1300.00	0.10	-	266.00		
	Centre Line								
								471.96	125541.00
	Basic Rate	437.00							
	Area Weightage 6%	34.96							
		471.96							
12	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead **10 Km** a)Basic rate for haulage of materials as per item No. 17.4/KSRRB M100-4.1 ..... Rs. **2.00** Tonne/Km b)Average earth of work **1.28** Tonne/Km for Rs **2.00**/Km c)Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. **62.20** (P.150, I.no.18.57/1, PWD SR 2013-14)								
	Qty Vide Item No=1	Cum					1257.82		
	Qty Limited to						1257.82	72.71	91456.00
	Basic Rate (Rs.2.0 x 1.28 x 2 kms)	5.12							
	Loading and Unloading Charges	62.20							
		67.32							
	Area Weightage 8%	5.39							
	Total	**72.71**							4194046.00
13	~~Miscellaneous and other unforseen charges~~ KRIDL Charges + Cess 1% Miscellaneous and Mon Charges								461345.00
									2668.00
								Total	4700000.00
	(Rupees Fortyseven Lakhs Only)								

CERTIFICATE

1 The work sport has been inspected and the work found to be necessary
2 This estimate is prepared as per the PWD S.R of 2013-14
3 The provisions made in estimate are adequate and essential
4 This area comes under BBMP limits

Ravi. N.E.
Asst. Engineer
Ward No-12

Asst.Executive Engineer
~~Shettyhalli Sub-Division~~
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

A/S
AE(DW) AS 884/13-14 ದಿನಾಂಕ: 01/03/14
ರೂ. 47.00 Lakhs (Rupees forty seven Lakhs only)
Page No. 003
SL No. 884
4/3/14
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

CE/DZ/TS/ SA 114-15
ನಂ. Pg No. 71 ದಿನಾಂಕ: 20/5/2014
ರೂ. 47,00,000/- (ಹಣ: ನಲವತ್ತೇಳು ಲಕ್ಷ ಮಾತ್ರ)
ಈ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಎಂಜಿನಿಯರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.